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DATE MAILED: 02/27/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,218	06/05/2001	Kenji Matsumoto	Q64809	4028
7:				
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202		NGUYEN, TUAN M		
			ART UNIT	PAPER NUMBER
			2828	

Please find below and/or attached an Office communication concerning this application or proceeding.

1 20 - 20		Application No.	Applicant(s)		
		09/873,218	MATSUMOTO, KENJI		
6	Office Action Summary	Examiner	Art Unit		
		Tuan M Nguyen	2828		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO THE M - Extens after S - If the p - If NO - Failure - Any re	DRTENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.13 DIX (6) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing I patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 vill apply and will expire SIX (6) MONTH: cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).		
1)🖂	Responsive to communication(s) filed on 10 E	December 2002 .			
2a)□	•	is action is non-final.			
3) <u> </u>	Since this application is in condition for allowal closed in accordance with the practice under the of Claims				
4)🛛 (Claim(s) $1-5$ is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) 🗌 (Claim(s) is/are allowed.		0 0		
6)⊠ (Claim(s) <u>1-5</u> is/are rejected.		Pane Is		
7) 🗌 (Claim(s) is/are objected to.		PAUL IP		
	Claim(s) are subject to restriction and/or on Papers	r election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800		
9)□ ⊤	he specification is objected to by the Examiner	r.			
10)∐ T	he drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the	Examiner.		
	Applicant may not request that any objection to the		• • • • • • • • • • • • • • • • • • • •		
11)∐ T	he proposed drawing correction filed on		approved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.					
	he oath or declaration is objected to by the Exa	aminer.			
	nder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
•	All b) Some * c) None of:				
	1.⊠ Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a)	The translation of the foreign language procknowledgment is made of a claim for domesti	visional application has beer	n received.		
· — Attachment(. , , ,	•		
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)		



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Karapiperis et al ('564).

With respect to claims 1-5, Karapiperis et al discloses an active zone (12) and a plurality of layers on parallel with activation layers, a first groove (76) is formed penetrating through at least some of plurality of layers, the second groove (77) extending from the first groove to predetermined position from both side of the first groove and the first groove filled up with material different than the specified layer, and another layer is formed so as to contact on surface of the first groove, note col. 1 line 30 to col. 15 line 3, see figures 1 and 5-6.

Response to Arguments

2. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Citation Of The Pertinent References

3. The prior art made of record and not relied upon us considered pertinent to applicant's disclose.

The patent to Horie et al (US patent 5,920,767) discloses method of forming a groove in a semiconductor laser diode and a semiconductor laser diode.



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The patent to Bridges et al (US patent 4,764,246) discloses buried undercut mesa like waveguide and method of making same.

The patent to Bridges et al (US patent 4,725,112) discloses buried undercut mesa like waveguide.

The patent to Renner (US patent 4,662,988) discloses semiconductor device and their fabrication.

Communication Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan M Nguyen whose telephone number is (703) 306-0247. The examiner can normally be reached on 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Paul Ip

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TMN

February 22, 2003